Department of Energy
Office of Science
Washington, DC 20585

August 19, 2003

Office of the Director

The Honorable Pete V. Domenici
Chairman, Committee on Energy
and Natural Resources
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

In response to the House Report (107-112) accompanying the FY 2002 House Energy and Water Development Appropriations Bill, enclosed is the Department of Energy semi-annual report on the status of the facilities and infrastructure program at the Department's science laboratories. Though the report is specifically required to be submitted to the House Committee on Appropriations, we are providing it to all of the House and Senate authorization and appropriations committees with jurisdiction over the Office of Science. The enclosed report fulfills the requirement for the period ending March 31, 2003. Important changes required in completing the report resulted in an unavoidable delay and we apologize for any inconvenience.

If you have further questions regarding this matter, please contact me directly at 202-586-5430 or Shannon Henderson, Acting Assistant Secretary for Congressional and Intergovernmental Affairs, at (202) 586-5450.

Sincerely,

Raymond L. Orbach
Director

Enclosure

cc: The Honorable Jeff Bingaman
Ranking Member

Department of Energy
Office of Science
Washington, DC 20585

August 19, 2003

Office of the Director

The Honorable Pete V. Domenici
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
United States Senate
Washington, DC 20510

Dear Mr. Chairman:

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Sincerely,

Raymond L. Orbach
Director

Enclosure

cc: The Honorable Harry Reid
Ranking Member

Department of Energy
Office of Science
Washington, DC 20585

August 19, 2003

Office of the Director

The Honorable Sherwood Boehlert
Chairman, Committee on Science
U. S. House of Representatives
Washington, DC 20515

Dear Mr. Chairman:

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Sincerely,

Raymond L. Orbach
Director

Enclosure

cc: The Honorable Ralph Hall
Ranking Minority Member

Department of Energy
Office of Science
Washington, DC 20585

August 19, 2003

Office of the Director

The Honorable David L. Hobson
Chairman, Subcommittee on Energy
and Water Development
Committee on Appropriations
U. S. House of Representatives
Washington, DC 20515-6020

Dear Mr. Chairman:

In response to the House Report (107-112) accompanying the FY 2002 House Energy and Water Development Appropriations Bill, enclosed is the Department of Energy semi-annual report on the status of the facilities and infrastructure program at the Department's science laboratories. Though the report is specifically required to be submitted to the House Committee on Appropriations, we are providing it to all of the House and Senate authorization and appropriations committees with jurisdiction over the Office of Science. The enclosed report fulfills the requirement for the period ending March 31, 2003. Important changes required in completing the report resulted in an unavoidable delay and we apologize for any inconvenience.

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Sincerely,

Raymond L. Orbach
Director

Enclosure

cc: The Honorable Peter J. Visclosky
Ranking Minority Member

REPORT ON THE STATUS OF THE FACILITIES AND INFRASTRUCTURE PROGRAM AT SCIENCE LABORATORIES AS OF MARCH 31, 2003

Background

In the Conference Report (107-258) accompanying the Fiscal Year 2002 (FY 2002) Energy and Water Development Appropriations Act, Public Law 107-66, Congress established a new Facilities and Infrastructure (F&I) program to improve the facilities and infrastructure at the Department of Energy (DOE) science laboratories. It directed that at least 25 percent of this funding be used to dispose of excess facilities that will provide the greatest impact on reducing long-term costs and risk.

The House Report (107-112, page 116) accompanying the FY 2002 House Energy and Water Development Appropriations Bill, requires that the Department provide a semi-annual report on the status of the F&I program to the Committee on Appropriations. Specifically, the report requires that:

> "The Department is to provide a semi-annual report to the Committee on the status of the facilities and infrastructure program. The report should include the current priority list of proposed facilities and infrastructure projects including cost and schedule requirements. For each site, the report is to include: a current ten-year site plan that demonstrates the reconfiguration of its facilities and infrastructure to meet its missions and to address its long-term operational costs and return on investment; the current budget for all facilities and infrastructure funding in this program, as well as all funding for maintenance and infrastructure upgrades funded through other parts of the budget; and the current status of each facilities and infrastructure project compared to the original baseline cost, schedule, and scope."

Reporting

This is the third in a series of semi-annual reports required, as described above, to report on the status of the Office of Science (SC) F&I program. Because the genesis and development of the program have already been described in the first semi-annual report, this report focuses primarily on the status of the program, and related developments, as of March 31, 2003.

Current priority list of proposed facilities and infrastructure projects including cost and schedule requirements

The current priority list of excess facilities disposition projects is shown in Table 1. It lists the laboratory, the title of the facility eligible for cleanup for reuse or demolition, the estimated cost of the project (if known), the square footage that will be cleaned up or demolished, the annual surveillance and maintenance (S&M) savings from disposition of the facility, and the fiscal year in which the facility is expected to be cleaned up or demolished (if known).

Table 1 shows that there is currently a backlog of 51 projects, with an area of approximately 670,000 square feet, and an annual S&M cost of approximately $1.2 million. In addition to projects at SC laboratories, the list includes three projects involving demolition of Magnetic Fusion Energy legacy facilities at the Lawrence Livermore National Laboratory whose construction was funded by SC.

Table 1 also shows the projects that have been selected for funding in FY 2003 based on the enacted appropriation of $7.9 million for the Science Laboratory Infrastructure (SLI) Excess Facilities Disposition subprogram. The FY 2003 projects include one each at the Oak Ridge National Laboratory (ORNL) and the Stanford Linear Accelerator Center (SLAC) funded by cost savings on the FY 2002 projects, which were carried over to FY 2003 (indicated by zero disposition cost).

The facilities in Table 1 are mostly those that were listed in the previous semi-annual report. The primary difference is inclusion of new projects and reordering of the priority of some projects made possible by increased subprogram funding in the enacted appropriation. Additional changes include replacement of some projects with ones determined by the laboratories to have a higher priority for elimination. Examples of projects made possible by the increased FY 2003 funding include:

- Cleanout of ORNL Building 9204-1 at the Y-12 Site - This will permit its transfer to the National Nuclear Security Administration for reuse, resulting in the elimination of $750,000 in annual S&M costs and avoidance of approximately $20 million in decontamination and decommissioning (D&D) costs which would be incurred by the Office of Science.

- Demolition and removal of Building 51B, the External Proton Beam (EPB) Hall, at the Lawrence Berkeley National Laboratory (LBNL) - Coupled with space already eliminated and planned future demolitions, removal of this 44,000 square foot building will provide off-setting space for construction of the Molecular Foundry and other construction projects planned for the near future.

As a result of the increased funding and changes in the selection of projects for funding, the amount of space which is expected to be cleaned up or demolished by FY 2003 funded projects has increased from approximately 120,000 square feet to approximately 460,000 square feet.

Table 1 also includes those projects which were selected for funding in FY 2004. As was stated in previous reports, "individual projects and amounts are subject to revision based on evolving program priorities, including risk reduction (e.g., removal of hazards), footprint reduction, cost savings (e.g., elimination of surveillance and maintenance costs), and availability of space/land for new research activities." They are also subject to change based on more detailed planning and experience gained from disposition of current projects (e.g., better estimates of costs, changes in project sequences). Final decisions on the FY 2004 projects will be made after the FY 2004 funds are appropriated.

It should be noted that Table 1 does not include projects involving cleanout and stabilization of contaminated facilities proposed for transfer to the Office of Environmental Management (EM) for ultimate disposition. At issue are 29 process-contaminated facilities at SC laboratories with an estimated D&D cost of $175 million. D&D of these facilities is not currently included in the SLI Excess Facilities Disposition subprogram, and the Department is currently reviewing its existing facility transfer policies.

Current ten-year site plans

SC requires every laboratory to submit a Strategic Facilities Plan (SFP) every other year. The Plan describes each laboratory's plans for fully modernizing it to support its current and projected research missions over a ten-year period, FY 2004 through FY 2013. It addresses existing and expected infrastructure deficiencies; site layout and development problems (including site cleanup, as appropriate); recognition of the laboratory as a preferred working environment; removal, replacement, and upgrade of nonfunctional buildings and equipment to modern standards; and anticipated mission support needs during the next 10 years. In developing the Plan, each laboratory engages its senior program managers to help define the infrastructure goals and improvements needed to support current and anticipated program activities.

The FY 2002 SFPs are summarized in the report, "Update of the Laboratory Modernization Plans in the April 2001 Report 'Infrastructure Frontier, A Quick Look Survey of the Office of Science Laboratory Infrastructure.'" This report, and the SFPs, can be viewed on the Web at http://www.science.doe.gov/SC-80/sc-82/labs21. In addition, the more detailed laboratory Site Master Plans, which form the bases for the SFPs, are available from the respective laboratories.

The SFPs identify $2.48 billion of capital and excess facilities projects needed over the ten-year period. Capital projects are: Line Items ($1.48 billion) and General Plant Projects ($757 million). The bulk of the Line Item projects (84%) is for building rehabilitations and replacements. The 10 SC research laboratories together have over 1,500 buildings and

750 trailers with 20 million gross square feet of space and are aging. Nearly 47% of the building space is 40 years old or older. Over 7,000 employees and users of SC research facilities are housed in wooden buildings, trailers and buildings over 50 years old.

In addition, as part of the annual Institutional Planning Process, each laboratory develops a "Site and Facilities" section for its Institutional Plan. This section identifies issues regarding general purpose/conventional facilities that affect, or may affect, mission accomplishment over the planning period of the Institutional Plan, including: suitability/functionality, cost effectiveness, worker and public health and safety, and environmental compliance, and describes the strategy for addressing the issues. The Institutional Plans are available at each SC laboratory's Web site.

Current budget for all facilities and infrastructure funding

The enacted FY 2003 budget for SC facilities and infrastructure is shown in Table 2, including the funding under the Facilities and Infrastructure (Excess Facilities Disposition) subprogram. Please note that Table 2 includes funding for SC facilities at Lawrence Livermore National Laboratory, Sandia National Laboratories and "All Others," in order to show the total SC budget for facilities and infrastructure. This information was also provided to Congress in the Department's Facilities & Infrastructure Crosscut Budget.

Current status of On-going Excess Facilities Disposition Projects

The current status of the projects funded by the SC Excess Facilities Disposition subprogram is summarized in Table 3. It includes projects funded with the FY 2003 appropriation, projects funded by carryover from FY 2002 discussed above, and FY 2002 projects, which were listed in the previous semi-annual report as not completed (all of them have been completed since then). It should be noted that the two latter sets of projects should increase the area to be cleaned up or demolished in FY 2003 to approximately 540,000 square feet.

Table 3 shows that most of the FY 2003 projects are still either in the planning stage or being prepared for cleanup or demolition. The primary reason for this is the delay in the final appropriations until February 2003. Nevertheless, all of the projects are expected to be completed by the end of FY 2003, or shortly thereafter.

It should be noted that the House Energy and Water Development Appropriations Subcommittee directed that new and innovative D&D practices be implemented to reduce costs and expedite site cleanups, and cited an example of cost savings at the Rocky Flats site. Most of the FY 2003 projects haven't yet reached the stage at which such cost savings can be realized. However, the following examples can be mentioned:

- LBNL has achieved innovative waste minimization by transferring surplus shield blocks removed from the B51A Beamline to a local company, American Soils Products, which will use them for soil containment bins. The blocks are free of induced radioactivity and were released within the limits of the DOE Metals

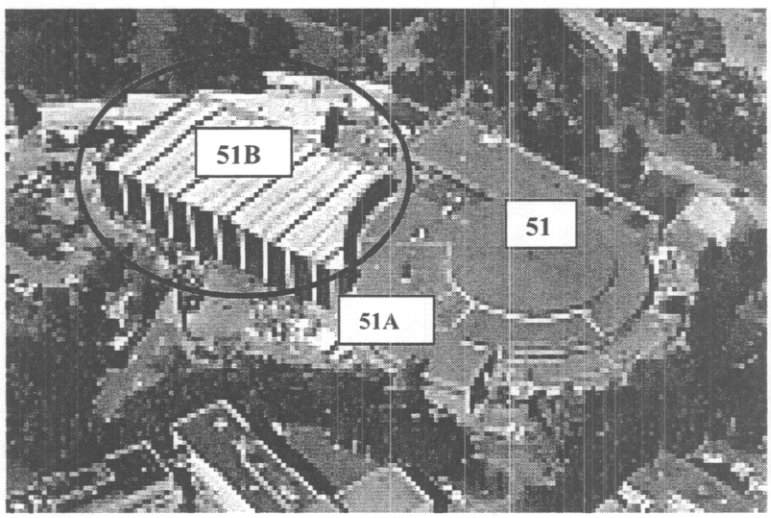
Moratorium. The avoided cost was used to increase the volume of material disposed of within the project cost.

- Building 252 at SLAC, previously proposed for demolition in FY 2003, was transferred to the Department of Interior, National Park Service, saving $5,000 in demolition costs. The resulting savings will allow demolition of additional excess facilities in FY 2003 at no additional cost.

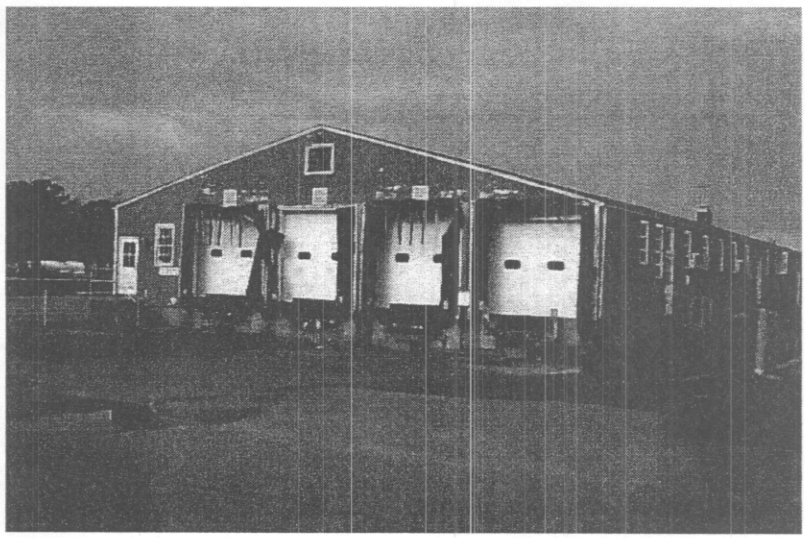
Overall, the Office of Science is satisfied with the management systems that are in place, and project execution progress to date, and expects successful execution of the FY 2003 projects. Because of the inherent uncertainty in making the estimates for disposal projects prior to detailed characterization of conditions and contaminants, it is anticipated that there may be additional changes to the baseline cost, scope, and schedule as work progresses, and the cost estimates may need to be refined. Also, projects may be re-prioritized based on the greatest reduction in long-term costs and risk.

Photographs of some of the cleanout and demolition projects funded in FY 2003 are attached.

Building 51B, the External Proton Beam (EPB) Hall at Lawrence Berkeley National Laboratory – to be demolished by September 2003

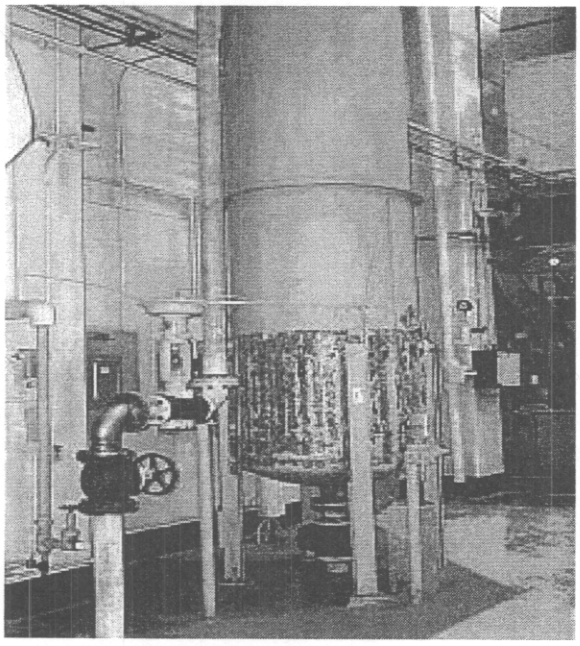


Building 89 at Brookhaven National Laboratory – to be demolished by July 2003



Cleanout of Building 9204-1 at Oak Ridge National Laboratory

Before



After

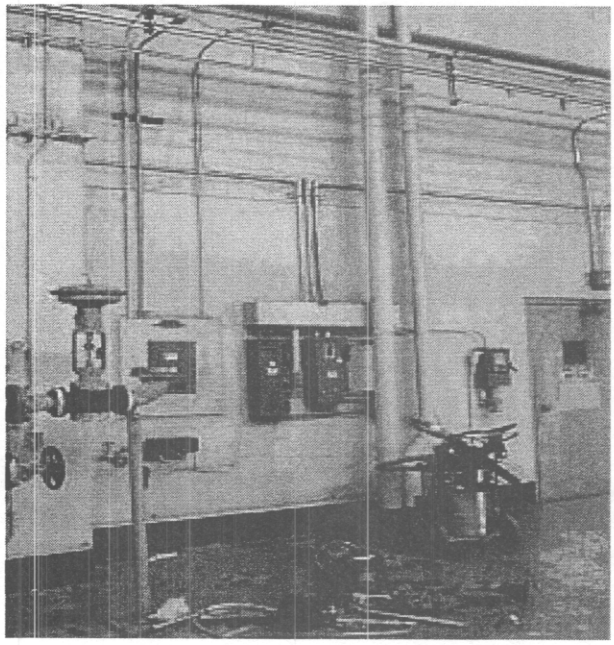


Table 1 - Office of Science Facilities Disposition Projects - March 31, 2003

Lab	Facility Eligible for Disposal	Estimate of Disposal Cost (TEC)-$K	Square Footage	Annual S&M Savings-$K	Fiscal Year of Cleanup
ANLE	Bldg. 306 C132A&B Decontamination	$ 550	130	$ 32	2003
ANLE	Bldg. 306 Room D-001 and D-002 Cell Decontamination	$ 250	550	$ 23	2003
ANLE	Bldg. 202 (Kennels) Partial Disposal	$ 300	8,000	$ 50	2003
ANLE	Bldg. 205 H-125/H-126 Cell D&D	$ 350	2,350	$ 45	2004
ANLE	Bldg. 330 (CP-5) Partial Disposal	$ 500	12,190	$ 62	2004
ANLE	Partial Facility Demolitions		3,760	$ -	TBD*
ANLE	Bldg. 40 (Instrument Calibration) Disposal		4,896	$ 55	TBD
ANLE	Bldg 203 Service Floor Radium Cleanup		23,954	$ 6	TBD
	Total	**$ 1,950**	**55,840**	**$ 263**	
BNL	Bldg. 89,90,91 Demolition	$ 475	28,018	$ 1	2003
BNL	Bldg. 158/206 Demolition	$ 350	23,547	$ 1	2003
BNL	Bldg. 184 Demolition	$ 200	5,024	$ 1	2003
BNL	Bldg 208 Demolition	$ 300	11,917	$ 1	2004
BNL	Bldg. 324 Demolition	$ 125	4,117	$ 1	2004
BNL	Bldg. 428 Demolition	$ 342	1,642	$ -	2004
BNL	BLdg 118 Demolition		5,442	$ 1	TBD
	Total	**$ 1,792**	**79,707**	**$ 7**	
FNAL	Muon Enclosures Pilot Program-4	$ 240	3,533		2003
FNAL	Laser Building Demolition	$ 67	912		2003
FNAL	Lab G Trailer Demolition	$ 31	1,440		2003
FNAL	Bubble Chamber Demolition	$ 233	3,000		2004
FNAL	Muon Enclosure Demolition-18 (Minus Pilot)		7,832		TBD
FNAL	PCenter Trailer Demolition		720		TBD
FNAL	Site 50-Shed B Demolition		774		TBD
	Total	**$ 571**	**18,211**	**$ -**	
LBNL	Remove B51A Beamline	$ 950	3,900	$ -	2003
LBNL	Demolish Structure 51B EPB Hall	$ 1,500	43,911		2003
LBNL	Disposal of Pill Box Roof Concrete Blocks from B51	$ 975	2,000	$ -	2004
LBNL	Trailer and Small Building Removal		15,787		TBD
LBNL	Remove Local Injector		1,200	$ -	TBD
LBNL	Remove Lead Dust Filters and Fan Equipment		2,600	$ -	TBD
LBNL	Remove Misc Metal Equipment from Accelerator		1,000	$ -	TBD
	Total	**$ 3,425**	**70,398**	**$ -**	
LLNL	Demolish MFE Bridge and Utility Lines	$ 250	1,130	$ 15	2003
LLNL	Remove MFE Legacy Facilities at B445	$ 250	7,000	$ 6	2004
LLNL	Remove MFE Legacy Facilities at B445-Continued		8,000		TBD
	Total	**$ 500**	**16,130**	**$ 21**	
ORNL	Bldg. 9204-1 Cleanout	$ 1,500	210,491	$ 750	2003
ORNL	Bldg. 9204-1 Scrap Yard Cleanout	$ -	41,736		2003
ORNL	Bldg. 9999-3 Cleanout	$ 100	2,400	$ 3	2003
ORNL	Bldg. 2011 Cleanout and Stabilization	$ 270	6,627	$ 38	2003
ORNL	Bldg. 2093 Demolition	$ 55	420	$ 5	2003
ORNL	Bldg. 0961 Demolition	$ 90	5,308	$ 1	2003
ORNL	Bldg. 3013 Demolition	$ 140	644	$ 5	2003
ORNL	Building 1506 Demolition	$ 400	4,800	$ 2	2004
ORNL	Demolish Freel's Bend And Solway Facilities	$ 600			2004
ORNL	Demolish Freel's Bend And Solway Facilities-Continued		65,479	$ 10	TBD
ORNL	Bldg. 5000 Demolition		4,360	$ 20	TBD
ORNL	Bldg. 954 Demolition		441	$ 1	TBD
	Total	**$ 3,155**	**342,706**	**$ 836**	
PPPL	PBX-M/PLT Control Room Removal	$ 545	12,000	$ 55	2003
PPPL	PBX-M/PLT Subsystem Removals and C-site Cooling Tower Demolition	$ 980	18,200	$ 55	2004
	Total	**$ 1,525**	**30,200**	**$ 110**	
SLAC	Cleanout of Lauritsen Lab at Cal Tech	$ 13	55,396	$ -	2003
SLAC	Demolish Bldgs.610, 253, 109 "Dry Room," and various pads, structures and utility lines	$ -	1,310		2003
SLAC	Demolish HRS Detector in Bldg. 660			$ -	TBD
SLAC	Demolish Mark II Detector in Bldg. 750			$ -	TBD
SLAC	Demolish Portion of Sector 17 "Boneyard"			$ -	TBD
	Total	**$ 13**	**56,706**	**$ -**	
HQ	Reserve	$ 24			2003
	Total	**$ 24**			
	FY 03 Totals	**$ 7,900**	**456,427**	**$ 970**	
	FY 04 Totals	**$ 5,056**	**67,226**	**$ 173**	
	All Projects		**669,898**	**$ 1,235**	

TBD* - to be determined

Table 2 - Office of Science FY 2003 Facilities and Infrastructure ($1000s)

Laboratory	SLI Infrastructure Line Item Construction	GPP	Excesss Facilities Disposition	Total SC Direct-Funded Infrastructure Investment*	Indirect Funded Maintenance**	Institutional GPP**
Ames		$ 515		$ 515	$ 720	
ANL-E	$ 3,007	$ 4,950	$ 1,100	$ 9,057	$ 17,029	
BNL	$ 7,466	$ 6,060	$ 1,025	$ 14,551	$ 12,659	
LBNL	$ 4,599	$ 3,500	$ 2,450	$ 10,549	$ 7,761	
FNAL		$ 1,753	$ 338	$ 2,091	$ 10,556	
LLNL			$ 250	$ 250		
ORNL	$ 10,684	$ 6,847	$ 2,155	$ 19,686	$ 14,420	$ 6,000
ORISE		$ 950		$ 950	$ 305	
PNNL	$ 3,950	$ 3,500		$ 7,450	$ 3,697	$ 1,000
PPPL		$ 2,900	$ 545	$ 3,445	$ 3,323	
Sandia		$ 98		$ 98		
SLAC		$ 4,706	$ 13	$ 4,719	$ 4,502	
TJNAF	$ 1,481	$ 436		$ 1,917	$ 3,325	
All Others		$ 652	$ 24	$ 676		
Total SC Budget	**$ 31,187**	**$ 36,867**	**$ 7,900**	**$ 75,954**	**$ 78,297**	**$ 7,000**

* Total of SLI Infrastrucutre Line Item Construction, GPP and Excess Facilities Disposition

** Funded from laboratory overhead or space charges. IGPP is a pilot program currently under review.

Table 3 - Status of Office of Science FY 2003 Excess Facilities Disposition Projects
Semi-Annual Report: March 31, 2003

Project Number	Project	Estimated Cost - $ Thousands	Square Footage to be Removed/ Cleaned-Up	Status of Project	Cost/Scope/Schedule
03-ANL-1	Bldg. 306 C132A&B Decontamination	$ 550	130	Cleanout underway	Within Baseline
03-ANL-2	Bldg. 306 Room D-001 and D-002 Cell Decontamination	$ 250	550	Funds authorized	Within Baseline
03-ANL-3	Bldg. 202 (Kennels) Partial Disposal	$ 300	8,000	Planning	Within Baseline
03-BNL-01	Bldg. 89,90,91 Demolition	$ 475	28,018	All pre-demolition activities completed	Within Baseline
03-BNL-02	Bldg. 158/206 Demolition	$ 350	23,547	Planning	Within Baseline
03-BNL-03	Bldg. 184 Demolition	$ 200	5,024		
02-FNAL-01	Neon Compressor Building Demolition*	$ 53	924	Completed	Within Baseline
03-FNAL-01	Muon Enclosures Pilot Program-4	$ 240	3,533	Design	Within Baseline
03-FNAL-02	Laser Building Demolition	$ 67	912	Contract awarded	Within Baseline
03-FNAL-03	Lab G Trailer Demolition	$ 31	1,440	Design	Within Baseline
02-LBNL-01	Removal of Motor Generators from Bldg. 51*	$ 330	3,300	Completed	Cost Increased to $370K
02-LBNL-02	Removal of the Heavy Ion Spectrometer System Magnet and One Bldg.*	$ 300	8,000	Completed	Cost Increased to $480K
02 LBNL 03	Remove Shield Blocks/Beam Lines from Experimental Particle Beam Hall*	$ 1,670	9,000	Completed	Cost Decreased to $1,620K Area Incr'd. to 14,500 sq.ft.
03-LBNL-01	Remove B51A Beamline	$ 950	3,900	Procurement	Within Baseline
03-LBNL-02	Demolish Structure 51B EPB Hall	$ 1,500	43,911	Planning	Within Baseline
03-LLNL-01	Demolish MFE Bridge and Utility Lines	$ 250	1,130	Planning	Within Baseline
02ORNL-02	Bldg. 5500 Cleanout and Stabilization of EN Accelerator*	$ 625	7,000	Completed	Cost Increased to $720K
03-ORNL-01	Bldg. 9204-1 Cleanout	$ 1,500	210,491	Cleanout underway	Within Baseline
03-ORNL-02	Bldg. 9204-1 Scrap Yard Cleanout**	$ 320	41,736	Planning	Within Baseline
03-ORNL-03	Bldg. 9999-3 Cleanout	$ 100	2,400	Funds authorized	Within Baseline
03-ORNL-04	Bldg. 2011 Cleanout and Stabilization	$ 270	6,627	Planning	Within Baseline
03-ORNL-05	Bldg. 2093 Demolition	$ 55	420	Building vacated	Within Baseline
03-ORNL-06	Bldg. 0961 Demolition	$ 90	5,308	Building vacated	Within Baseline
03-ORNL-07	Bldg. 3013 Demolition	$ 140	644	Building vacated	Within Baseline
02-PNNL-01	Demolish Bldg. 331 and Dog Kennels*	$ 497	26,000	Completed	Within Baseline
02-PPPL-01	Preparation for Princeton Beta Experiment-Modification Disposition*	$ 875	27,000	Completed	Within Baseline
03-PPPL-01	PBX-M/PLT Control Room Removal	$ 545	12,000	Procurement	Within Baseline
03-SLAC-01	Cleanout of Lauritsen Lab at Cal Tech	$ 13	55,396	Negotiation with CIT	Within Baseline
03-SLAC-02	Demolish Bldgs.610, 253, 109 "Dry Room," and various pads, structures and utility lines**	$ 192		Planning	Within Baseline
HQ	Reserve	$ 24			
	Total FY 2003 Funding	**$ 7,900**	**536,341**		

* FY 2002 project completed in FY 2003. Not included in Total FY 2003 Funding.
**FY 2003 project funded with FY 2002 cost savings. Not included in Total FY 2003 Funding.